NAME OF WORK : IMPROVEMENTS AND RESTORATION OF ROADS IN WARD NO. 06 (PACKAGE 02) (PACKAGE CONSISTS OF 11 WORKS).

Quality Control Reports

First and Part Bill

(Book No : 01)

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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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8	RCC(M20)	Compressive Strength(7days and 28days)	9 set /200-300 cum	282.29	18	18
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	6 set /100-150 cum	130.6	12	12
10	GSB	SIEVE ANALYSIS	One Test		1	1
11	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
12	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
13	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
15	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
16	TACK COAT	Rate of spread	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar,

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 23-06-2022

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 24-06-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.14	_
2	Finess by Air permeablity method (m^2/kg.Min)	281.6	225m^2/kg. Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-09-30-36 **Date: 22-07-2022**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	23-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	24-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-09-30-36 **Date: 27-06-2022**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	23-06-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained . in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-30-36** **Date: 27-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-30-36** **Date: 27-06-2022**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	23-06-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-30-36** **Date: 27-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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ಡ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 27-06-2022

Lab ID	:	CP-2022-09-30-36
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	23-06-2022
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	23-06-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	44	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	215	291	29.1	70.9	30-70	55-90	75-100	90-100
5	600 micron	245	536	53.6	46.4	15-34	35-59	60-79	80-100
6	300 micron	201	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	178	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	8.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

ವಿಹಾರ್ಯ ಅಧಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Date: 27-06-2022

Lab ID	:	CP-2022-09-30-36
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	23-06-2022
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test:	:	24-06-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

ನಿರ್ವಾಹಕ ಅಧಿಯಂತರರು

ನಿರ್ವಾಹಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧಿಯಂತರರ
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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-09-30-36 **Date: 29-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Sample Type /Size : Precast Cover Slab (100 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 25/06/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.62	100.56	1.119	4490	80.5	17.9	16.7	20.8
2	Cover Slab-2	75.79	100.62	1.263	4511	79.5	17.6	16.4	20.5
3	Cover Slab-3	75.50	100.85	1.325	4476	82.5	18.4	17.1	21.4

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2022-09-30-36** **Date: 29-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Sample Type /Size : Precast Cover Slab (250 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 25/06/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.63	258.36	2.635	31608	625.5	19.8	18.4	23.0
2	Cover Slab-2	200.75	258.49	2.489	31646	675.5	21.3	19.9	24.8
3	Cover Slab-3	200.82	250.75	2.863	31668	715.5	22.6	21.0	26.3

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/07/2022

Lab ID : CP-2022-09-30-36

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 29-06-2022

Customer ID : Drain Bottom Raft - Mariyanna Palya Cross Road -1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Mariyanna Palya Cross Road -1	M20	27/06/2022	04/07/2022	149.11 X 150.67 X 151.81	22467	9.098	405.8	18.1	18.2
2	Drain Bottom Raft - Mariyanna Palya Cross Road -1	M20	27/06/2022	04/07/2022	151.24 X 149.58 X 150.54	22623	9.033	411.7	18.2	
3	Drain Bottom Raft - Mariyanna Palya Cross Road -1	M20	27/06/2022	04/07/2022	149.34 X 149.77 X 151.83	22367	8.506	407.8	18.2	

* The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 26/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 29-06-2022

Customer ID : Drain Bottom Raft - Mariyanna Palya Cross Road -1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Mariyanna Palya Cross Road -1	M20	27/06/2022	25/07/2022	149.63 X 149.29 X 151.76	22338	8.728	517.9	23.2	23.0
2	Drain Bottom Raft - Mariyanna Palya Cross Road -1	M20	27/06/2022	25/07/2022	151.96 X 151.79 X 149.28	23066	8.958	508.1	22.0	
3	Drain Bottom Raft - Mariyanna Palya Cross Road -1	M20	27/06/2022	25/07/2022	151.16 X 149.09 X 151.79	22536	8.447	535.3	23.8	

* The results obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/07/2022

Lab ID	:	CP-2022-09-30-36
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	29-06-2022
Customer ID	:	Drain Bottom Raft - Kaveri Layout - 6th Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Kaveri Layout - 6th Main Road	M20	27/06/2022	04/07/2022	150.66 X 149.35 X 150.63	22501	8.584	424.1	18.8	18.7
2	Drain Bottom Raft - Kaveri Layout - 6th Main Road	M20	27/06/2022	04/07/2022	151.74 X 149.66 X 150.98	22710	8.447	424.7	18.7	
3	Drain Bottom Raft - Kaveri Layout - 6th Main Road	M20	27/06/2022	04/07/2022	150.55 X 150.34 X 151.83	22634	8.928	421.7	18.6	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-30-36** **Date: 25/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 29-06-2022

Customer ID : Drain Bottom Raft - Kaveri Layout - 6th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Kaveri Layout - 6th Main Road	M20	27/06/2022	25/07/2022	150.53 X 150.13 X 150.31	22598	8.214	521.0	23.1	23.0
2	Drain Bottom Raft - Kaveri Layout - 6th Main Road	M20	27/06/2022	25/07/2022	150.28 X 151.59 X 151.65	22781	8.334	516.6	22.7	
3	Drain Bottom Raft - Kaveri Layout - 6th Main Road	M20	27/06/2022	25/07/2022	149.95 X 151.92 X 150.26	22781	8.206	530.7	23.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/07/2022

Lab ID	:	**CP-2022-09-30-36**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	30-06-2022
Customer ID	:	Drain Bottom Raft - Bharath Nagara Cross Road - 1
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Bharath Nagara Cross Road - 1	M20	27/06/2022	04/07/2022	151.49 X 150.51 X 149.83	22801	8.393	416.2	18.3	18.3
2	Drain Bottom Raft - Bharath Nagara Cross Road - 1	M20	27/06/2022	04/07/2022	150.81 X 149.83 X 150.21	22595	8.619	412.6	18.3	
3	Drain Bottom Raft - Bharath Nagara Cross Road - 1	M20	27/06/2022	04/07/2022	149.44 X 151.19 X 150.21	22595	8.922	414.1	18.3	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-30-36** **Date: 25/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Irfra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 30-05-2022

Customer ID : Drain Bottom Raft - Bharath Nagara Cross Road - 1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Bharath Nagara Cross Road - 1	M20	27/06/2022	25/07/2022	151.00 X 151.26 X 149.34	22840	9.048	526.3	23.0	22.8
2	Drain Bottom Raft - Bharath Nagara Cross Road - 1	M20	27/06/2022	25/07/2022	151.58 X 151.65 X 151.76	22987	8.324	511.1	22.2	
3	Drain Bottom Raft - Bharath Nagara Cross Road - 1	M20	27/06/2022	25/07/2022	149.33 X 150.30 X 149.32	22445	8.129	519.4	23.1	

* The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-30-36** **Date: 06/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout. 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall- Shabari Nagara- 4th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Shabari Nagara- 4th Cross Road	M20	29/06/2022	06/07/2022	150.09 X 150.02 X 150.01	22516	8.543	411.7	18.3	18.5
2	Drain Side Wall-Shabari Nagara- 4th Cross Road	M20	29/06/2022	06/07/2022	150.32 X 149.33 X 151.32	22447	8.860	413.4	18.4	
3	Drain Side Wall-Shabari Nagara- 4th Cross Road	M20	29/06/2022	06/07/2022	151.41 X 149.62 X 151.19	22653	8.763	422.9	18.7	

* The results obtained are satisfactory as per standard requirements.

ಕರ್ತವ್ಯಕ್ಕೆ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

ಕರ್ತವ್ಯಕ್ಕೆ ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 27/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall- Shabari Nagara- 4th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall-Shabari Nagara- 4th Cross Road	M20	29/06/2022	27/07/2022	151.40 X 151.18 X 151.66	22889	8.549	526.8	23.0	23.0
2	Drain Side Wall-Shabari Nagara- 4th Cross Road	M20	29/06/2022	27/07/2022	149.93 X 149.30 X 151.20	22386	8.801	500.4	22.4	
3	Drain Side Wall-Shabari Nagara- 4th Cross Road	M20	29/06/2022	27/07/2022	149.36 X 150.44 X 150.21	22470	8.783	530.0	23.6	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

Lab ID : CP-2022-09-30-36
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 01-07-2022
Customer ID : Drain Side Wall- Abubakar Masjid Cross Road - 2
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Abubakar Masjid Cross Road - 2	M20	29/06/2022	06/07/2022	152.00 X 151.38 X 150.46	23009	9.049	422.2	18.3	18.5
2	Drain Side Wall-Abubakar Masjid Cross Road - 2	M20	29/06/2022	06/07/2022	149.06 X 149.66 X 149.00	22308	9.016	418.5	18.8	
3	Drain Side Wall-Abubakar Masjid Cross Road - 2	M20	29/06/2022	06/07/2022	151.63 X 149.12 X 149.12	22611	8.287	413.1	18.3	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ವ್ಯಾಪ್ತಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-28

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 27/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-602, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/CE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall- Abubakar Masjid Cross Road - 2

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall-Abubakar Masjid Cross Road - 2	M20	29/06/2022	27/07/2022	151.38 X 149.14 X 150.30	22651	8.814	524.8	23.2	23.1
2	Drain Side Wall-Abubakar Masjid Cross Road - 2	M20	29/06/2022	27/07/2022	151.90 X 151.60 X 150.70	23024	8.407	509.1	22.1	
3	Drain Side Wall-Abubakar Masjid Cross Road - 2	M20	29/06/2022	27/07/2022	150.71 X 150.15 X 151.50	22629	8.579	540.7	23.9	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಆಧೀಯಂತರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ವ್ಯಾಪಾರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧಿಯಂತರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 06/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WC/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Side Wall- Dasarahalli extension

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall-Dasarahalli extension	M20	29/06/2022	06/07/2022	151.71 X 150.63 X 150.47	22852	8.177	432.5	18.9	18.7
2	Culvert Side Wall-Dasarahalli extension	M20	29/06/2022	06/07/2022	149.77 X 149.98 X 150.45	22462	8.924	419.6	18.7	
3	Culvert Side Wall-Dasarahalli extension	M20	29/06/2022	06/07/2022	149.14 X 149.78 X 150.86	22337	8.993	416.3	18.6	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 27/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Side Wall- Dasarahalli extension

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall-Dasarahalli extension	M20	29/06/2022	27/07/2022	150.11 X 149.38 X 151.91	22424	8.414	525.7	23.4	23.1
2	Culvert Side Wall-Dasarahalli extension	M20	29/06/2022	27/07/2022	150.01 X 151.93 X 149.57	22791	8.240	511.3	22.4	
3	Culvert Side Wall-Dasarahalli extension	M20	29/06/2022	27/07/2022	149.39 X 151.27 X 150.92	22599	8.339	526.2	23.3	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 06/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Bottom Raft- Defence Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft-Defence Layout	M20	29/06/2022	06/07/2022	151.93 X 149.98 X 149.41	22786	8.419	423.0	18.6	18.6
2	Culvert Bottom Raft-Defence Layout	M20	29/06/2022	06/07/2022	149.19 X 151.59 X 150.62	22617	8.579	429.4	19.0	
3	Culvert Bottom Raft-Defence Layout	M20	29/06/2022	06/07/2022	151.24 X 150.15 X 150.37	22709	8.842	414.8	18.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 27/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Bottom Raft- Defence Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft-Defence Layout	M20	29/06/2022	27/07/2022	151.58 X 151.99 X 149.38	23039	8.122	547.5	23.8	23.2
2	Culvert Bottom Raft-Defence Layout	M20	29/06/2022	27/07/2022	150.72 X 150.27 X 151.34	22649	8.811	510.1	22.5	
3	Culvert Bottom Raft-Defence Layout	M20	29/06/2022	27/07/2022	149.16 X 149.68 X 149.28	22326	8.884	521.5	23.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-30-36** **Date: 06/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Bottom Raft- Dasarahalli extension

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft-Dasarahalli extension	M20	29/06/2022	06/07/2022	149.83 X 150.67 X 150.31	22575	8.247	412.6	18.3	18.6
2	Culvert Bottom Raft-Dasarahalli extension	M20	29/06/2022	06/07/2022	150.05 X 150.39 X 151.17	22567	8.948	416.9	18.5	
3	Culvert Bottom Raft-Dasarahalli extension	M20	29/06/2022	06/07/2022	150.75 X 149.14 X 150.60	22483	8.378	426.4	19.0	

* The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 27/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Bottom Raft- Dasarahalli extension

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft-Dasarahalli extension	M20	29/06/2022	27/07/2022	149.34 X 149.88 X 151.05	22384	8.700	532.0	23.8	23.5
2	Culvert Bottom Raft-Dasarahalli extension	M20	29/06/2022	27/07/2022	149.64 X 151.02 X 151.56	22598	8.223	518.0	22.9	
3	Culvert Bottom Raft-Dasarahalli extension	M20	29/06/2022	27/07/2022	150.54 X 151.58 X 149.40	22819	8.740	540.4	23.7	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Lab ID : CP-2022-09-30-36 **Date: 06/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Side Wall- Bharath Nagara

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall-Bharath Nagara	M20	29/06/2022	06/07/2022	151.11 X 150.24 X 150.78	22703	8.773	421.4	18.6	18.6
2	Culvert Side Wall-Bharath Nagara	M20	29/06/2022	06/07/2022	149.46 X 149.43 X 149.86	22334	8.145	417.1	18.7	
3	Culvert Side Wall-Bharath Nagara	M20	29/06/2022	06/07/2022	151.14 X 151.10 X 149.91	22838	8.307	422.4	18.5	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-30-36 **Date: 27/07/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/51/2022-23

Date of Receipt : 01-07-2022

Customer ID : Culvert Side Wall- Bharath Nagara

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Side Wall-Bharath Nagara	M20	29/06/2022	27/07/2022	149.20 X 150.37 X 150.85	22436	8.992	524.6	23.4	23.0
2	Culvert Side Wall-Bharath Nagara	M20	29/06/2022	27/07/2022	150.01 X 149.69 X 151.02	22454	8.240	495.7	22.1	
3	Culvert Side Wall-Bharath Nagara	M20	29/06/2022	27/07/2022	150.08 X 149.35 X 151.84	22415	9.010	524.8	23.4	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಆಡಳಿತಾಧಿಕಾರಿಯವರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿಯಲ್ಲಿರುವ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-3.4

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11080 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	2014	2316	21.1	78.9	60-80
11.2	2245	4561	41.5	58.5	40-60
4.75	2148	6709	61.0	39.0	25-40
2.36	1758	8467	77.0	23.0	15-30
0.6	1458	9925	90.2	9.8	8-22
0.075	758	10683	97.1	2.9	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	325	325	3.0	97.0	95-100
22.4	2055	2380	21.6	78.4	60-80
11.2	2272	4652	42.3	57.7	40-60
4.75	2047	6699	60.9	39.1	25-40
2.36	1745	8444	76.8	23.2	15-30
0.6	1402	9846	89.5	10.5	8-22
0.075	689	10535	95.8	4.2	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2022-09-30-36** **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2042	2357	21.4	78.6	60-80
11.2	2270	4627	42.1	57.9	40-60
4.75	2038	6665	60.6	39.4	25-40
2.36	1742	8407	76.4	23.6	15-30
0.6	1401	9808	89.2	10.8	8-22
0.075	685	10493	95.4	4.6	0-5

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	320	320	2.9	97.1	95-100
22.4	2049	2369	21.5	78.5	60-80
11.2	2285	4654	42.3	57.7	40-60
4.75	2048	6702	60.9	39.1	25-40
2.36	1746	8448	76.8	23.2	15-30
0.6	1398	9846	89.5	10.5	8-22
0.075	655	10501	95.5	4.5	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿಯಾನುಮತಿ ಉಚಿತ ಮಾಡಿಸಿ

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ವ್ಯಾಪ್ತಿಯಾನುಮತಿ ಉಚಿತ ಮಾಡಿಸಿ
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	342	342	3.1	96.9	95-100
22.4	2075	2417	22.0	78.0	60-80
11.2	2279	4696	42.7	57.3	40-60
4.75	2101	6797	61.8	38.2	25-40
2.36	1742	8539	77.6	22.4	15-30
0.6	1347	9886	89.9	10.1	8-22
0.075	672	10558	96.0	4.0	0-5

* The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	305	305	2.8	97.2	95-100
22.4	2104	2409	21.9	78.1	60-80
11.2	2243	4652	42.3	57.7	40-60
4.75	2155	6807	61.9	38.1	25-40
2.36	1798	8605	78.2	21.8	15-30
0.6	1325	9930	90.3	9.7	8-22
0.075	598	10528	95.7	4.3	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	2245	2547	23.2	76.8	60-80
11.2	2349	4896	44.5	55.5	40-60
4.75	2179	7075	64.3	35.7	25-40
2.36	1805	8880	80.7	19.3	15-30
0.6	1048	9928	90.3	9.7	8-22
0.075	649	10577	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	249	249	2.3	97.7	95-100
22.4	2014	2263	20.6	79.4	60-80
11.2	2298	4561	41.5	58.5	40-60
4.75	2047	6608	60.1	39.9	25-40
2.36	1965	8573	77.9	22.1	15-30
0.6	1299	9872	89.7	10.3	8-22
0.075	758	10630	96.6	3.4	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕ್ಷಕರು
ಬಿ.ಟಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF GRADATION FOR WMM

Date: 27-06-2022

Lab ID	:	CP-2022-09-30-36
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	25-06-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	25-06-2022
Oven Dry Weight	:	11008 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	2.7	97.3	95-100
22.4	2314	2612	23.7	76.3	60-80
11.2	2298	4910	44.6	55.4	40-60
4.75	2047	6957	63.2	36.8	25-40
2.36	1965	8922	81.1	18.9	15-30
0.6	1099	10021	91.1	8.9	8-22
0.075	558	10579	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	301	301	2.7	97.3	95-100
22.4	2263	2564	23.3	76.7	60-80
11.2	2242	4806	43.7	56.3	40-60
4.75	2175	6981	63.5	36.5	25-40
2.36	1946	8927	81.2	18.8	15-30
0.6	1126	10053	91.4	8.6	8-22
0.075	425	10478	95.3	4.7	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

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TEST RESULTS OF GRADATION FOR WMM

Date: 27-06-2022

Lab ID	:	CP-2022-09-30-36
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	25-06-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	25-06-2022
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	321	321	2.9	97.1	95-100
22.4	2345	2666	24.2	75.8	60-80
11.2	2298	4964	45.1	54.9	40-60
4.75	2047	7011	63.7	36.3	25-40
2.36	1865	8876	80.7	19.3	15-30
0.6	1045	9921	90.2	9.8	8-22
0.075	725	10646	96.8	3.2	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF GRADATION FOR WMM

Date: 27-06-2022

Lab ID : CP-2022-09-30-36

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	312	312	2.8	97.2	95-100
22.4	2115	2427	22.1	77.9	60-80
11.2	2258	4685	42.6	57.4	40-60
4.75	2188	6873	62.5	37.5	25-40
2.36	1765	8638	78.5	21.5	15-30
0.6	1022	9660	87.8	12.2	8-22
0.075	725	10385	94.4	5.6	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Date: 27-06-2022

Lab ID	:	CP-2022-09-30-36
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	25-06-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	25-06-2022
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	322	322	2.9	97.1	95-100
22.4	2245	2567	23.3	76.7	60-80
11.2	2347	4914	44.7	55.3	40-60
4.75	2078	6992	63.6	36.4	25-40
2.36	1745	8737	79.4	20.6	15-30
0.6	1021	9758	88.7	11.3	8-22
0.075	745	10503	95.5	4.5	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-74

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TEST RESULTS OF GRADATION FOR WMM

Date: 27-06-2022

Lab ID : CP-2022-09-30-36

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	299	299	2.7	97.3	95-100
22.4	2175	2474	22.5	77.5	60-80
11.2	2325	4799	43.6	56.4	40-60
4.75	2144	6943	63.1	36.9	25-40
2.36	1858	8801	80.0	20.0	15-30
0.6	1044	9845	89.5	10.5	8-22
0.075	698	10543	95.8	4.2	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST RESULTS OF GRADATION FOR WMM

Date: 27-06-2022

Lab ID	:	CP-2022-09-30-36
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	25-06-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	25-06-2022
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	2098	2400	21.8	78.2	60-80
11.2	2247	4647	42.2	57.8	40-60
4.75	2248	6895	62.7	37.3	25-40
2.36	1902	8797	80.0	20.0	15-30
0.6	1201	9998	90.9	9.1	8-22
0.075	589	10587	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ವ್ಯಾಪ್ತಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-2022-09-30-36** **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.1	298.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.5	72.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	229.1	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.2
5	Aggregate impact value	(B/A)*100	23.0	24.2
6	Aggregate impact value (Mean of two tests)	Pecentage	23.6	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-2022-09-30-36** **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.6	299.6
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.5	69.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	230.5	229.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.8
5	Aggregate impact value	(B/A)*100	22.9	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	23.0	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-2022-09-30-36 **Date: 27-06-2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-06-2022

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 25-06-2022

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.4	298.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.5	73.8
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.1	224.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.5
5	Aggregate impact value	(B/A)*100	24.3	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.5	

* The results obtained are satisfactory as per standard requirements.

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